

Lab Assistant App

SciPad:

Tools for Teaching and Learning Science

The Definitive List of Apps for Teaching Science

Who am I kidding - there are thousands of apps, and this session is going to be a personal race to see how many I can show you effectively that can really support you, the teacher, or your students, in a science classroom. I did come up with two lists for you - search the App Store in iTunes for info on these.

My Top 15 Most Useful Apps

Built-in apps (Mail, Safari, iPod) - communication and research tools that all can use. No download needed.

DropBox - file syncing service that I can live without, and the tool that you would use to manage student work and assignments.

Camera - it's on the iPod and iPhone, and coming soon to the iPad. Great for capturing what is going on in class, notes from the board, or video of an experiment.

Google and Google Earth - Searches on the iPod are much different when you use the voice search or search tricks using Google's search engine. And, Google Earth (and maps) are great for earth science work.

Wolfram Alpha (& Siri) - takes science research and other data-based searching to a new level. Should change what any high school math teacher does too.

Evernote - notes will never be the same. Text, audio, or picture notes that you can access anywhere, search, and share with others

Instapaper - lets you grab any web page for later reading off-line. This could be your textbook!

Keynote - a presentation tool specifically for the iPad

Dragon Dictation - transcribes your speech, which you can then paste into a document, email, etc.

iBooks - this is great not only as a reader for books, but you can also use this with PDF files or documents to read information. Now, with textbooks (and iBook Author, if you want to create your own) it can help bridge the gap from what used to be to the present.

iTunes U (or podcasts) - did you know that you can get classes taught by leading scientists around the world for free? Use iTunes U and the iPod function to see or hear these great resources.

GraphCalc or pCalc - graphing calculator with more functionality than an TI or other true calculator alone

Sketchbook - amazing drawing program that is great for notes or drawing diagrams

Articles - imagine anything you want from wikipedia in a easy-to-read format that can be saved to your device

Science in the Lab And, Some Content Specific Apps

Elements - an eBook that takes advantage of the tool

Star Walk - great for astronomy or night-time star watching.

Frog Dissection - no formaldehyde smell in your room

NASA HD - amazing photos, animations, and data

EMD PTE - the periodic table of elements has never seemed more organized or useful

Video Physics - lets you plot location data from videos for graphing and analysis

SPARK vue - use a Bluetooth connector to get data from any Pasco Probes you have

Formula Pro - every formula you can imagine

iBird Pro - identify birds by picture, sound, or dozens of other variables

3d Cell Simulations and Stain Tool - complete video library and diagrams of complex cell functions

Science360 - NSF app to connect research to education through rich content and videos

Lab Timer - just what it says; multiple timers in one app

Our Choice - great book and demo addressing global warming considerations with dynamic content

Simple Physics - demonstration program that addresses common mechanics topics through demos

ArcGIS - great mapping tool that lets you analyze geographic information

Coaster Physics - addresses Newton's laws through roller coaster demonstrations

WeatherGeek - weather mapping tool that gives you rich data sets along with visuals of current or historic weather

OmniGraph Sketcher - excellent tool for creating detailed graphs and charts to represent data

Particle Zoo - addresses subatomic particles and their functions through simple demonstrations

Angry Birds - believe it or not, the angry birds rely on a complex physics engine to determine their movement - worth trying for Newton's laws